

**Kamaraj Matriculation Hr.sec.School.Ayanavaram.Chennai- 23.****Bio- Zoology****Time: 1.30****UNIT – 1 The Living World****Total Marks: 50****D)Choose the correct answer****10\*1=10**

1. Select the correct combination

- a) Ailurus fulgens- Polytypic genus    b) Malehorse, female donkey –Mule –Sterile  
 c)Taxonomy –Augustin Pyramus de condole.    d)Thrmus aquaticus – Methanogens

2. A species which are Vulnerable to endangerment in the near future is

- a)Endangered            b) Extinct            c) Threatened            d ) Alive

3,Which of the following is not present in same rank ?

- a)Orthoptera            b)Diptera            c) Primata            d) Insecta

4,Every unit of classification regardless of its rank is

- a)Variety            b)Taxon            c) Species            d) Strain

5.Choose the Statement Which is not true about Aristotle

- a)Classified animals on the presence or absence of RBC  
 b) Classified plants and animals  
 c) Classified based on locomotion  
 d) classified based on their habitat

6. Naming an animals is based on the guidelines of

- a)Nomenclature    b)classification    c) ICZN    d) Aristotle

7. **Assertion :**The taxonomic Hierarchy inclues seven obligates Catagories viz.

Kingdom, Phylum, Class, Order ,Family, Genus , Specis.

**Reason :** Sub kingdom, Subphylum , or Subdivision,Subclass, Suborder, etc., are intermediate categories.

- a)A is correct R is wrong ,    b)A is wrong but R is correct  
 c)A & R are wrong            d) A & R are correct

8.Match the following an select the correct option

Column I

column II

A.Carolus Linnaeus

i)Father of classical taxonomy

B.John ray

ii) Species Plantarum

C.Walter Rosen

iii)Historia plantarum

D)Aristotle

iv)Bio Divrsity

a)A-iii, B-i, C-iv ,D-ii,            b) A-ii, B-i, C-iv ,D-iii,

c) A-iii, B-i,C-iv ,D-ii,            d) A-ii, B-iii, C-iv ,D-i

9.Read the following statements and select the correct option regarding three domain life .

i.Separates prokaryotes into two

ii.Proposed by Cavalier Smith

iii.Classified based on molecular techniques and biochemical assay.

iv.This taxon is placed below the kingdom

- a) i, ii & iv    b) i& iii    c) ii &iv    d) All of these
10. Identify the correct sequence of six kingdom classification
- Monera , Protista , Archaea, Fungi, Plantae, Animalia.
  - Archaea, Bacteria, Protista , , Fungi, Plantae, Animalia.
  - Protista ,Bactria, Archaea, Fungi, Plantae, Animalia.
  - Bacteria,Archaea,Protista,Fungi ,Plantae,Animalia.

**ii) Answer any five questions**

5\*2=10

1. What is the Significance of *Thermus aquaticus* ?
2. What is Tautonymy?
3. If you find an animal with four legs with two eyes paired ear pinna covered with fur, possessing mammary gland, which class you position it?
4. Why sparrows are listed as endangered Species ?
5. Why should we prefer curd than milk ?
6. Write any two limitations on Aristotle's Classification
7. What is Extremophiles.

**iii) Answer any Five of the following ;**

5\*3=15

1. Reproduction cannot be considered as a character to define living organism. Justify the statement.
2. What is the difference between a Zoo and wildlife Sanctuary?
3. Write any three Automated species identification tools ?
4. What is TIGON, LIGER ,
5. Explain the Genus *Ailurus*.
6. What are the aims of classification ?
7. Define Phylogeny.

**iv) Answer any Three of the Following**

3\*5=15

1. expand ICZN List out the rules of Nomenclature
2. list any five Salient features of family Felidae
3. Is molecular tool significant than classical tools ? How ? write about the various tools.
4. When should we follow Trinominal Nomenclature.
5. Define cladogram , Explain with diagram.

**One Important Key To Success is Self Confidence. An Important Key To Self Confidence Is PREPARATION.,**

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